



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JAMES B. HUNT JR.  
GOVERNOR

DIVISION OF HIGHWAYS  
P.O. BOX 25201, RALEIGH, N.C. 27611-5201

GARLAND B. GARZETT JR.  
SECRETARY

**MEMORANDUM TO:** Project Engineers  
Project Design Engineers  
**FROM:** W. J. Rogers, P.E.  
State Bridge Design  
Engineer  
**DATE:** November 24, 1997  
**SUBJECT:** BULB TEE STANDARDS

The standards, PCG9, PCG10, PCG9SM, PCG10SM, have been revised to show a reduction in the bulb tee bottom flange widths of 1" (26 mm ) to 2'-2" (660 mm). This modification will enable prestressing plants to use their existing AASHTO Type IV bottom flange pallets in the production of the bulb tees.

The revised geometry results in a decrease in the gross area and moment of inertia of approximately 0.8 % and 1.3 %, respectively. Therefore, existing designs of bulb tees need not be re-analyzed.

This policy is effective with the February, 1998 letting. The Design Manual and NCBDS will be revised accordingly at a later date.

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WJR/RGW/ap



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Last Updated: 8/11/98 by: Steven Rackley

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